CLAIMS

We claim:

5	1. A drive belt stabilizer system for increasing the tautness of a return portion	ı of a
	drive belt, comprising:	

a base;

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- a lower member attached to said base;
- an upper member slidably positioned upon said lower member;
- a support stand attached to said upper member;
- a roller rotatably positioned within said support stand, wherein said roller is formed for engaging said return portion of said drive belt;
- a spring positioned within said lower member and said upper member for applying a separating force between thereof;
- a securing shaft attached to said base and slidably extending through said support stand; and
- a threaded nut threadably attached to a threaded portion of said securing shaft extending through said support stand for limiting an upper position of said upper member.
- 20 2. The drive belt stabilizer system of Claim 1, wherein said lower member and said upper member are comprised of corresponding cross sectional structures.
 - 3. The drive belt stabilizer system of Claim 1, wherein said lower member and said upper member are comprised of tubular structures.
 - 4. The drive belt stabilizer system of Claim 1, wherein said spring is comprised of a compression spring.

- 5. The drive belt stabilizer system of Claim 4, wherein an upper end of said compression spring engages a lower surface of said support stand and wherein a lower end of said compression spring engages an upper surface of said base.
- 5 6. The drive belt stabilizer system of Claim 1, wherein said roller is comprised of a nylon material.
 - 7. The drive belt stabilizer system of Claim 1, including an elongate fastener extending through said support stand and said roller for rotatably supporting said roller.

- 8. The drive belt stabilizer system of Claim 1, wherein said roller has a length at least two times greater than a diameter of said roller.
- 9. The drive belt stabilizer system of Claim 1, wherein said support stand is comprised of a cross member attached to said upper member, a first member extending transversely from a first end of said cross member and a second member extending transversely from a second end of said cross member.
- 10. The drive belt stabilizer system of Claim 9, wherein said lower member and said upper member are comprised of corresponding cross sectional structures.
 - 11. The drive belt stabilizer system of Claim 9, wherein said lower member and said upper member are comprised of tubular structures.
- 25 12. The drive belt stabilizer system of Claim 9, wherein said spring is comprised of a compression spring.

- 13. The drive belt stabilizer system of Claim 12, wherein an upper end of said compression spring engages a lower surface of said support stand and wherein a lower end of said compression spring engages an upper surface of said base.
- 14. The drive belt stabilizer system of Claim 9, wherein said roller is comprised of a nylon material.
 - 15. The drive belt stabilizer system of Claim 9, including an elongate fastener extending through said support stand and said roller for rotatably supporting said roller.
 - 16. The drive belt stabilizer system of Claim 9, wherein said roller has a length at least two times greater than a diameter of said roller.
- 17. A drive belt stabilizer system for increasing the tautness of a return portion of a drive belt, comprising:
 - a base;

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- a lower member attached to said base:
- an upper member slidably positioned upon said lower member;
- a support stand comprised of a cross member attached to said upper member, a first 20 member extending transversely from a first end of said cross member and a second member extending transversely from a second end of said cross member;
 - a roller rotatably positioned within said support stand, wherein said roller is formed for engaging said return portion of said drive belt;
- a spring positioned within said lower member and said upper member for applying 25 a separating force between thereof;
 - a securing shaft attached to said base and slidably extending through said support stand; and

a threaded nut threadably attached to a threaded portion of said securing shaft extending through said support stand for limiting an upper position of said upper member;

wherein said lower member and said upper member are comprised of corresponding cross sectional structures;

wherein said lower member and said upper member are comprised of tubular structures;

wherein said spring is comprised of a compression spring;

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wherein an upper end of said compression spring engages a lower surface of said support stand and wherein a lower end of said compression spring engages an upper surface of said base;

wherein said roller is comprised of a nylon material;

an elongate fastener extending through said support stand and said roller for rotatably supporting said roller;

wherein said roller has a length at least two times greater than a diameter of said roller.

18. A method of applying a drive belt stabilizer apparatus for increasing the tautness of a return portion of a drive belt, said stabilizer apparatus comprising, a base, a lower member attached to said base, an upper member slidably positioned upon said lower member, a support stand comprised of a cross member attached to said upper member, a first member extending transversely from a first end of said cross member and a second member extending transversely from a second end of said cross member, a roller rotatably positioned within said support stand, wherein said roller is formed for engaging said return portion of said drive belt, a spring positioned within said lower member and said upper member for applying a separating force between thereof, a securing shaft attached to said base and slidably extending through said support stand, and a threaded nut threadably attached to a threaded portion of said securing shaft extending through said support stand for limiting an upper position of said upper member, said method comprising the steps of:

- (a) attaching said base to a structure positioned directly beneath said return portion of said drive belt; and
- (b) manipulating said threaded nut to adjust the vertical position of said roller so that said roller engages and supports said return portion of said drive belt.

- 19. The method of applying a drive belt stabilizer apparatus of Claim 18, wherein said lower member and said upper member are comprised of corresponding cross sectional structures.
- 20. The method of applying a drive belt stabilizer apparatus of Claim 18, wherein said lower member and said upper member are comprised of tubular structures.